```
SQL> cl scr

SQL> SELECT LEVEL, Ename, Job, MGR
  2  FROM Emp;
FROM Emp
     *
ERROR at line 2:
ORA-01788: CONNECT BY clause required in this query block


SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1  SELECT LEVEL, Ename, Job, MGR
  2  FROM Emp
  3  START WITH Ename = 'KING'
  4* CONNECT BY PRIOR Empno = MGR
SQL> /

     LEVEL ENAME      JOB            MGR
---------- ---------- --------- ----------
         1 KING       PRESIDENT
         2 JONES      MANAGER         7839
         3 SCOTT      ANALYST         7566
         4 ADAMS      CLERK           7788
         3 FORD       ANALYST         7566
         4 SMITH      CLERK           7902
         2 BLAKE      MANAGER         7839
         3 ALLEN      SALESMAN        7698
         3 WARD       SALESMAN        7698
         3 MARTIN     SALESMAN        7698
         3 TURNER     SALESMAN        7698
         3 JAMES      CLERK           7698
         2 CLARK      MANAGER         7839
         3 MILLER     CLERK           7782

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT LEVEL, Ename, Job, MGR
```

```
  2   FROM Emp
  3   START WITH Ename = 'KING'
  4   CONNECT BY PRIOR Empno = MGR
  5*  ORDER BY LEVEL
SQL> /

     LEVEL ENAME        JOB              MGR
---------- ---------- ---------- ----------
         1 KING         PRESIDENT
         2 JONES        MANAGER         7839
         2 BLAKE        MANAGER         7839
         2 CLARK        MANAGER         7839
         3 FORD         ANALYST         7566
         3 WARD         SALESMAN        7698
         3 JAMES        CLERK           7698
         3 MILLER       CLERK           7782
         3 ALLEN        SALESMAN        7698
         3 SCOTT        ANALYST         7566
         3 MARTIN       SALESMAN        7698
         3 TURNER       SALESMAN        7698
         4 ADAMS        CLERK           7788
         4 SMITH        CLERK           7902

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT LEVEL, Ename, Job, MGR
  2   FROM Emp
  3   START WITH Ename = 'BLAKE'
  4*  CONNECT BY PRIOR Empno = MGR
SQL> /

     LEVEL ENAME        JOB              MGR
---------- ---------- ---------- ----------
         1 BLAKE        MANAGER         7839
         2 ALLEN        SALESMAN        7698
         2 WARD         SALESMAN        7698
         2 MARTIN       SALESMAN        7698
         2 TURNER       SALESMAN        7698
         2 JAMES        CLERK           7698

6 rows selected.
```

```
SQL> ED
Wrote file afiedt.buf

  1   SELECT LEVEL, Ename, Job, MGR
  2   FROM Emp
  3   START WITH Ename = 'JONES'
  4*  CONNECT BY PRIOR Empno = MGR
SQL> /

     LEVEL ENAME       JOB              MGR
---------- ---------- ---------- ----------
         1 JONES       MANAGER         7839
         2 SCOTT       ANALYST         7566
         3 ADAMS       CLERK           7788
         2 FORD        ANALYST         7566
         3 SMITH       CLERK           7902

SQL> ED
Wrote file afiedt.buf

  1   SELECT LEVEL, Ename, Job, MGR
  2   FROM Emp
  3   START WITH Job = 'MANAGER'
  4*  CONNECT BY PRIOR Empno = MGR
SQL> /

     LEVEL ENAME       JOB              MGR
---------- ---------- ---------- ----------
         1 JONES       MANAGER         7839
         2 SCOTT       ANALYST         7566
         3 ADAMS       CLERK           7788
         2 FORD        ANALYST         7566
         3 SMITH       CLERK           7902
         1 BLAKE       MANAGER         7839
         2 ALLEN       SALESMAN        7698
         2 WARD        SALESMAN        7698
         2 MARTIN      SALESMAN        7698
         2 TURNER      SALESMAN        7698
         2 JAMES       CLERK           7698
         1 CLARK       MANAGER         7839
         2 MILLER      CLERK           7782

13 rows selected.
```

```
SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1   SELECT LEVEL, Ename, Job, MGR
  2   FROM Emp
  3   WHERE LEVEL = 2
  4   START WITH Job = 'PRESIDENT'
  5*  CONNECT BY PRIOR Empno = MGR
  6   /

    LEVEL ENAME      JOB             MGR
---------- ---------- ---------- ----------
        2 JONES      MANAGER        7839
        2 BLAKE      MANAGER        7839
        2 CLARK      MANAGER        7839

SQL> cl scr

SQL> COLUMN Org_Chart FORMAT A15
SQL> SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1)) Org_Chart,
  3   Ename, Empno, Mgr, Job
  4   FROM Emp
  5   START WITH Job = 'PRESIDENT'
  6   CONNECT BY PRIOR Empno = MGR;

ORG_CHART       ENAME           EMPNO        MGR JOB
--------------- ---------- ---------- ---------- ---------
1               KING             7839            PRESIDENT
  2             JONES            7566       7839 MANAGER
    3           SCOTT            7788       7566 ANALYST
      4         ADAMS            7876       7788 CLERK
    3           FORD             7902       7566 ANALYST
      4         SMITH            7369       7902 CLERK
  2             BLAKE            7698       7839 MANAGER
    3           ALLEN            7499       7698 SALESMAN
    3           WARD             7521       7698 SALESMAN
    3           MARTIN           7654       7698 SALESMAN
    3           TURNER           7844       7698 SALESMAN
    3           JAMES            7900       7698 CLERK
  2             CLARK            7782       7839 MANAGER
```

```
    3              MILLER          7934        7782 CLERK

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1)) Org_Chart,
  3   Ename, Empno, Mgr, Job
  4   FROM Emp
  5   START WITH Job = 'PRESIDENT'
  6   CONNECT BY PRIOR Empno = MGR
  7* ORDER BY LEVEL
SQL> /

ORG_CHART          ENAME          EMPNO       MGR JOB
---------------    ----------    ----------  ----------------
1                  KING           7839           PRESIDENT
  2                JONES          7566      7839 MANAGER
  2                BLAKE          7698      7839 MANAGER
  2                CLARK          7782      7839 MANAGER
    3              FORD           7902      7566 ANALYST
    3              WARD           7521      7698 SALESMAN
    3              JAMES          7900      7698 CLERK
    3              MILLER         7934      7782 CLERK
    3              ALLEN          7499      7698 SALESMAN
    3              SCOTT          7788      7566 ANALYST
    3              MARTIN         7654      7698 SALESMAN
    3              TURNER         7844      7698 SALESMAN
      4            ADAMS          7876      7788 CLERK
      4            SMITH          7369      7902 CLERK

14 rows selected.

SQL> COLUMN Org_Chart FORMAT A15
SQL> SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1))||'. '||Ename Org_Chart,
  3   Empno, MGR, Job
  4   FROM Emp
  5   START WITH Job = 'PRESIDENT'
  6   CONNECT BY PRIOR Empno = MGR;

ORG_CHART              EMPNO      MGR JOB
```

```
---------------   ----------   ----------   ---------
1. KING               7839                  PRESIDENT
   2. JONES           7566         7839 MANAGER
      3. SCOTT        7788         7566 ANALYST
         4. ADAMS     7876         7788 CLERK
      3. FORD         7902         7566 ANALYST
         4. SMITH     7369         7902 CLERK
   2. BLAKE           7698         7839 MANAGER
      3. ALLEN        7499         7698 SALESMAN
      3. WARD         7521         7698 SALESMAN
      3. MARTIN       7654         7698 SALESMAN
      3. TURNER       7844         7698 SALESMAN
      3. JAMES        7900         7698 CLERK
   2. CLARK           7782         7839 MANAGER
      3. MILLER       7934         7782 CLERK

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  LPAD(LEVEL, ((2 * LEVEL) - 1))||'. '||Ename Org_Chart,
  3  Empno, MGR, Job
  4  FROM Emp
  5  START WITH Job = 'PRESIDENT'
  6  CONNECT BY PRIOR Empno = MGR
  7* ORDER BY LEVEL
SQL> /

ORG_CHART            EMPNO         MGR JOB
---------------   ----------   ----------   ---------
1. KING               7839                  PRESIDENT
   2. JONES           7566         7839 MANAGER
   2. BLAKE           7698         7839 MANAGER
   2. CLARK           7782         7839 MANAGER
      3. FORD         7902         7566 ANALYST
      3. WARD         7521         7698 SALESMAN
      3. JAMES        7900         7698 CLERK
      3. MILLER       7934         7782 CLERK
      3. ALLEN        7499         7698 SALESMAN
      3. SCOTT        7788         7566 ANALYST
      3. MARTIN       7654         7698 SALESMAN
      3. TURNER       7844         7698 SALESMAN
```

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```
    4.  ADAMS          7876         7788 CLERK
    4.  SMITH          7369         7902 CLERK

14 rows selected.

SQL> cl scr

SQL> SELECT
  2  LPAD(' ', ((2 * LEVEL) - 1))||Ename Org_Chart,
  3  Empno, MGR, Job , Sal
  4  FROM Emp
  5  START WITH Job = 'PRESIDENT'
  6  CONNECT BY PRIOR Empno = MGR;

ORG_CHART             EMPNO        MGR JOB            SAL
---------------  ----------  ---------- --------- ----------
 KING                 7839             PRESIDENT      5000
   JONES              7566        7839 MANAGER        2975
     SCOTT            7788        7566 ANALYST        3000
       ADAMS          7876        7788 CLERK          1100
     FORD             7902        7566 ANALYST        3000
       SMITH          7369        7902 CLERK           800
   BLAKE              7698        7839 MANAGER        2850
     ALLEN            7499        7698 SALESMAN       1600
     WARD             7521        7698 SALESMAN       1250
     MARTIN           7654        7698 SALESMAN       1250
     TURNER           7844        7698 SALESMAN       1500
     JAMES            7900        7698 CLERK           950
   CLARK              7782        7839 MANAGER        2450
     MILLER           7934        7782 CLERK          1300

14 rows selected.

SQL> COLUMN Org_Chart FORMAT A15
SQL> SELECT
  2  LPAD(LEVEL, ((2 * LEVEL) - 1))||'. '||Ename Org_Chart,
  3  Empno, MGR, Job
  4  FROM Emp
  5  START WITH Job = 'PRESIDENT'
  6  CONNECT BY PRIOR Empno = MGR;

ORG_CHART             EMPNO        MGR JOB
---------------  ----------  ---------- ---------
1. KING               7839             PRESIDENT
```

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```
      2. JONES            7566        7839 MANAGER
         3. SCOTT         7788        7566 ANALYST
            4. ADAMS      7876        7788 CLERK
         3. FORD          7902        7566 ANALYST
            4. SMITH      7369        7902 CLERK
      2. BLAKE            7698        7839 MANAGER
         3. ALLEN         7499        7698 SALESMAN
         3. WARD          7521        7698 SALESMAN
         3. MARTIN        7654        7698 SALESMAN
         3. TURNER        7844        7698 SALESMAN
         3. JAMES         7900        7698 CLERK
      2. CLARK            7782        7839 MANAGER
         3. MILLER        7934        7782 CLERK

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  LPAD(LEVEL, ((2 * LEVEL) - 1))||'. '||Ename Org_Chart,
  3  Empno, MGR, Job
  4  FROM Emp
  5  START WITH Job = 'PRESIDENT'
  6  CONNECT BY PRIOR Empno = MGR AND
  7* Job <> 'SALESMAN'
SQL> /

ORG_CHART            EMPNO        MGR JOB
--------------- ---------- ---------- ---------
1. KING              7839             PRESIDENT
   2. JONES          7566        7839 MANAGER
      3. SCOTT       7788        7566 ANALYST
         4. ADAMS    7876        7788 CLERK
      3. FORD        7902        7566 ANALYST
         4. SMITH    7369        7902 CLERK
   2. BLAKE          7698        7839 MANAGER
      3. JAMES       7900        7698 CLERK
   2. CLARK          7782        7839 MANAGER
      3. MILLER      7934        7782 CLERK

10 rows selected.

SQL> ED
```

```
Wrote file afiedt.buf

  1   SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1))||'. '||Ename Org_Chart,
  3   Empno, MGR, Job
  4   FROM Emp
  5   START WITH Job = 'PRESIDENT'
  6   CONNECT BY PRIOR Empno = MGR AND
  7*  Job <> 'ANALYST'
SQL> /

ORG_CHART            EMPNO       MGR JOB
---------------  ----------  ---------- ---------
1. KING             7839           PRESIDENT
   2. JONES          7566      7839 MANAGER
   2. BLAKE          7698      7839 MANAGER
      3. ALLEN       7499      7698 SALESMAN
      3. WARD        7521      7698 SALESMAN
      3. MARTIN      7654      7698 SALESMAN
      3. TURNER      7844      7698 SALESMAN
      3. JAMES       7900      7698 CLERK
   2. CLARK          7782      7839 MANAGER
      3. MILLER      7934      7782 CLERK

10 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1))||'. '||Ename Org_Chart,
  3   Empno, MGR, Job
  4   FROM Emp
  5   WHERE Job <> 'ANALYST'
  6   START WITH Job = 'PRESIDENT'
  7*  CONNECT BY PRIOR Empno = MGR
  8   /

ORG_CHART            EMPNO       MGR JOB
---------------  ----------  ---------- ---------
1. KING             7839           PRESIDENT
2. JONES            7566      7839 MANAGER
      4. ADAMS       7876      7788 CLERK
      4. SMITH       7369      7902 CLERK
```

```
   2. BLAKE              7698       7839 MANAGER
     3. ALLEN            7499       7698 SALESMAN
     3. WARD             7521       7698 SALESMAN
     3. MARTIN           7654       7698 SALESMAN
     3. TURNER           7844       7698 SALESMAN
     3. JAMES            7900       7698 CLERK
   2. CLARK              7782       7839 MANAGER
     3. MILLER           7934       7782 CLERK

12 rows selected.

SQL> cl scr

SQL> SELECT
  2  LPAD(' ', ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3  Empno, MGR, Job, Sal
  4  FROM Emp
  5  START WITH Job = 'PRESIDENT'
  6  CONNECT BY PRIOR Empno = MGR
  7  AND LEVEL <= 2;

ORG_CHART               EMPNO       MGR JOB              SAL
--------------- ---------- ---------- --------- ----------
  KING                  7839            PRESIDENT       5000
    JONES               7566       7839 MANAGER         2975
    BLAKE               7698       7839 MANAGER         2850
    CLARK               7782       7839 MANAGER         2450

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  LPAD(' ', ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3  Empno, MGR, Job, Sal
  4  FROM Emp
  5  START WITH Job = 'PRESIDENT'
  6  CONNECT BY PRIOR Empno = MGR
  7* AND LEVEL <= 3
SQL> /

ORG_CHART               EMPNO       MGR JOB              SAL
--------------- ---------- ---------- --------- ----------
  KING                  7839            PRESIDENT       5000
    JONES               7566       7839 MANAGER         2975
```

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```
       SCOTT            7788          7566 ANALYST           3000
       FORD             7902          7566 ANALYST           3000
    BLAKE               7698          7839 MANAGER           2850
       ALLEN            7499          7698 SALESMAN          1600
       WARD             7521          7698 SALESMAN          1250
       MARTIN           7654          7698 SALESMAN          1250
       TURNER           7844          7698 SALESMAN          1500
       JAMES            7900          7698 CLERK              950
    CLARK               7782          7839 MANAGER           2450
       MILLER           7934          7782 CLERK             1300

12 rows selected.

SQL> cl scr

SQL> SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3   Empno, MGR, Job, Sal
  4   FROM Emp
  5   WHERE MOD(LEVEL, 2) = 0
  6   START WITH Job = 'PRESIDENT'
  7   CONNECT BY PRIOR Empno = MGR;

ORG_CHART              EMPNO     MGR JOB              SAL
----------------   ----------  ------- ---------  ----------
  2 JONES             7566     7839 MANAGER         2975
      4 ADAMS         7876     7788 CLERK           1100
      4 SMITH         7369     7902 CLERK            800
  2 BLAKE             7698     7839 MANAGER         2850
  2 CLARK             7782     7839 MANAGER         2450

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3   Empno, MGR, Job, Sal
  4   FROM Emp
  5   WHERE MOD(LEVEL, 2) = 1
  6   START WITH Job = 'PRESIDENT'
  7*  CONNECT BY PRIOR Empno = MGR
SQL>
SQL> /
```

```
ORG_CHART              EMPNO        MGR JOB             SAL
---------------- ---------- ---------- --------- ----------
1 KING                  7839            PRESIDENT      5000
     3 SCOTT            7788       7566 ANALYST        3000
     3 FORD             7902       7566 ANALYST        3000
     3 ALLEN            7499       7698 SALESMAN       1600
     3 WARD             7521       7698 SALESMAN       1250
     3 MARTIN           7654       7698 SALESMAN       1250
     3 TURNER           7844       7698 SALESMAN       1500
     3 JAMES            7900       7698 CLERK           950
     3 MILLER           7934       7782 CLERK          1300

9 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3   Empno, MGR, Job, Sal
  4   FROM Emp
  5   WHERE MOD(LEVEL, 2) IN(1, 4)
  6   START WITH Job = 'PRESIDENT'
  7*  CONNECT BY PRIOR Empno = MGR
SQL> /

ORG_CHART              EMPNO        MGR JOB             SAL
---------------- ---------- ---------- --------- ----------
1 KING                  7839            PRESIDENT      5000
     3 SCOTT            7788       7566 ANALYST        3000
     3 FORD             7902       7566 ANALYST        3000
     3 ALLEN            7499       7698 SALESMAN       1600
     3 WARD             7521       7698 SALESMAN       1250
     3 MARTIN           7654       7698 SALESMAN       1250
     3 TURNER           7844       7698 SALESMAN       1500
     3 JAMES            7900       7698 CLERK           950
     3 MILLER           7934       7782 CLERK          1300

9 rows selected.

SQL> ROLLBACK;

Rollback complete.
```

```
SQL> ED
Wrote file afiedt.buf

    1    SELECT
    2    LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
    3    Empno, MGR, Job, Sal
    4    FROM Emp
    5    WHERE LEVEL IN(1, 4)
    6    START WITH Job = 'PRESIDENT'
    7*   CONNECT BY PRIOR Empno = MGR
SQL> /

ORG_CHART              EMPNO        MGR JOB              SAL
---------------   ----------  ---------- ---------  ----------
1 KING                 7839            PRESIDENT      5000
      4 ADAMS          7876       7788 CLERK          1100
      4 SMITH          7369       7902 CLERK           800

SQL> ED
Wrote file afiedt.buf

    1    SELECT
    2    LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
    3    Empno, MGR, Job, Sal
    4    FROM Emp
    5    WHERE LEVEL BETWEEN 2 AND 4
    6    START WITH Job = 'PRESIDENT'
    7*   CONNECT BY PRIOR Empno = MGR
SQL> /

ORG_CHART              EMPNO        MGR JOB              SAL
---------------   ----------  ---------- ---------  ----------
  2 JONES              7566       7839 MANAGER        2975
    3 SCOTT            7788       7566 ANALYST        3000
      4 ADAMS          7876       7788 CLERK          1100
    3 FORD             7902       7566 ANALYST        3000
      4 SMITH          7369       7902 CLERK           800
  2 BLAKE              7698       7839 MANAGER        2850
    3 ALLEN            7499       7698 SALESMAN       1600
    3 WARD             7521       7698 SALESMAN       1250
    3 MARTIN           7654       7698 SALESMAN       1250
    3 TURNER           7844       7698 SALESMAN       1500
    3 JAMES            7900       7698 CLERK           950
  2 CLARK              7782       7839 MANAGER        2450
```

```
       3 MILLER             7934       7782 CLERK              1300

13 rows selected.

SQL> cl scr

SQL> SELECT
  2  LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3  Empno, MGR, Job, Sal
  4  FROM Emp
  5  WHERE Sal =
  6   (
  7   SELECT MAX(Sal)
  8   FROM Emp
  9   WHERE LEVEL = 2
 10   START WITH Job = 'PRESIDENT'
 11   CONNECT BY PRIOR Empno = MGR
 12   )
 13  START WITH Job = 'PRESIDENT'
 14  CONNECT BY NOCYCLE PRIOR Empno = MGR;

ORG_CHART              EMPNO        MGR JOB             SAL
--------------- ---------- ---------- -------- ----------
     2 JONES             7566       7839 MANAGER         2975

SQL> cl scr

SQL> SELECT
  2  LPAD(LEVEL, ((2 * LEVEL) - 1))||' '||Ename Org_Chart,
  3  Empno, Dept.Deptno, Dname, Sal
  4  FROM Emp, Dept
  5  WHERE Sal >
  6   (
  7   SELECT MAX(Sal)
  8   FROM Emp
  9   WHERE LEVEL = 2
 10   START WITH Job = 'PRESIDENT'
 11   CONNECT BY PRIOR Empno = MGR
 12   ) AND
 13  Dept.Deptno = Emp.Deptno
 14  START WITH Job = 'PRESIDENT'
 15  CONNECT BY NOCYCLE PRIOR Empno = MGR;

ORG_CHART              EMPNO     DEPTNO DNAME                  SAL
```

```
_____    _____  _____  _____  _____
1 KING              7839        10 ACCOUNTING             5000
    3 SCOTT         7788        20 RESEARCH               3000
    3 FORD          7902        20 RESEARCH               3000

SQL> SPOOL OFF
```